

Table 1

	Alumina	Purity	Primary particle	D90/D10	Shape	D/H	>10 μm	Sintering agent	Amount added
		%	μm				ppm		
Example 1	AA04	99.99	0.40	4.8	Polyhedron	1	5		
Example 2	AA04	99.99	0.40	4.8	Polyhedron	1	5		
Example 3	AA02	99.99	0.20	6.0	Polyhedron	1	15		
Example 4	AA03	99.99	0.30	5.0	Polyhedron	1	10		
Example 5	AA07	99.99	0.70	3.6	Polyhedron	1	4		
Example 6	AA03	99.99	0.30	5.0	Polyhedron	1	10	Magnesium nitrate	200
Example 7	AA04	99.99	0.40	4.8	Polyhedron	1	5	Magnesium nitrate	500
Example 8	AA02	99.99	0.20	6.0	Polyhedron	1	5	Magnesium nitrate	50
Example 9	AA04	99.99	0.40	4.8	Polyhedron	1	5	Magnesia	500
Example 10	AA04	99.99	0.40	4.8	Polyhedron	1	5	Magnesium nitrate	1000
Example 11	AA05	99.99	0.50	4.5	Polyhedron	1	3	Magnesia	500
Example 12	AA07	99.99	0.70	3.6	Polyhedron	1	4	Magnesium nitrate	100
Example 13	AA04	99.99	0.40	4.8	Polyhedron	1	5	Magnesium nitrate	50
Example 14	AA04	99.99	0.40	4.8	Polyhedron	1	5	Magnesium nitrate	25
Comparative example 1	UA5055	99.99	0.30	5.8	Nonuniform	2	120		
Comparative example 2	UA5055	99.99	0.30	5.8	Nonuniform	2	120		
Comparative example 3	UA5055	99.99	0.30	5.8	Nonuniform	2	120		
Comparative example 4	UA5055	99.99	0.30	5.8	Nonuniform	2	120	Magnesium nitrate	500
Comparative example 5	AA2	99.99	2.00	3.0	Polyhedron	1	50	Magnesium nitrate	500
Comparative example 6	AA04	99.99	0.40	10.0	Polyhedron	1	209	Magnesium nitrate	500
Comparative example 7	Bayer	99.50	0.60	6.6	Nonuniform	3	790	Magnesium nitrate	500
Comparative example 8	Fine particle alumina	99.99	0.05	3.0	Nonuniform	5	Filtering impossible	Magnesium nitrate	500